

Petr Broz

List of Publications by Year in descending order

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Version: 2024-02-01

92
papers

14,207
citations

47006

47
h-index

48315

88
g-index

105
all docs

105
docs citations

105
times ranked

16089
citing authors

#	ARTICLE	IF	CITATIONS
1	Regulation of Lytic and Non-Lytic Functions of Gasdermin Pores. <i>Journal of Molecular Biology</i> , 2022, 434, 167246.	4.2	39
2	Novel de novo pathogenic variant in the GNAI1 gene as a cause of severe disorders of intellectual development. <i>Journal of Human Genetics</i> , 2022, 67, 209-214.	2.3	2
3	Cell-Autonomous Defenses Against Intracellular Bacteria and Protozoa. , 2022, , .		0
4	Optogenetic activators of apoptosis, necroptosis, and pyroptosis. <i>Journal of Cell Biology</i> , 2022, 221, .	5.2	31
5	Activation and manipulation of inflammasomes and pyroptosis during bacterial infections. <i>Biochemical Journal</i> , 2022, 479, 867-882.	3.7	4
6	Detection of Gasdermin Activation and Lytic Cell Death During Pyroptosis and Apoptosis. <i>Methods in Molecular Biology</i> , 2022, , 209-237.	0.9	5
7	Novel <i>ZEB2</i> – <i>PLAG1</i> fusion gene identified by RNA sequencing in a case of lipoblastoma. <i>Pediatric Blood and Cancer</i> , 2021, 68, e28691.	1.5	9
8	Active membrane rupture spurs a range of cell deaths. <i>Nature</i> , 2021, 591, 36-37.	27.8	11
9	RIPK1 activates distinct gasdermins in macrophages and neutrophils upon pathogen blockade of innate immune signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	55
10	Guanylate-Binding Protein-Dependent Noncanonical Inflammasome Activation Prevents <i>Burkholderia thailandensis</i> -Induced Multinucleated Giant Cell Formation. <i>MBio</i> , 2021, 12, e0205421.	4.1	7
11	Genetic targeting of Card19 is linked to disrupted NINJ1 expression, impaired cell lysis, and increased susceptibility to <i>Yersinia</i> infection. <i>PLoS Pathogens</i> , 2021, 17, e1009967.	4.7	25
12	Case Report: Contiguous Xq22.3 Deletion Associated with ATS-ID Syndrome: From Genotype to Further Delineation of the Phenotype. <i>Frontiers in Genetics</i> , 2021, 12, 750110.	2.3	4
13	Pannexin1 promotes NLRP3 activation during apoptosis but is dispensable for canonical or noncanonical inflammasome activation. <i>European Journal of Immunology</i> , 2020, 50, 170-177.	2.9	53
14	The gasdermins, a protein family executing cell death and inflammation. <i>Nature Reviews Immunology</i> , 2020, 20, 143-157.	22.7	881
15	Beyond inflammasomes: emerging function of gasdermins during apoptosis and NETosis. <i>EMBO Journal</i> , 2020, 39, e103397.	7.8	62
16	Performance of Targeted Library Preparation Solutions for SARS-CoV-2 Whole Genome Analysis. <i>Diagnostics</i> , 2020, 10, 769.	2.6	17
17	Cyclopentenone Prostaglandins and Structurally Related Oxidized Lipid Species Instigate and Share Distinct Pro- and Anti-inflammatory Pathways. <i>Cell Reports</i> , 2020, 30, 4399-4417.e7.	6.4	19
18	Caspase-8-dependent gasdermin D cleavage promotes antimicrobial defense but confers susceptibility to TNF-induced lethality. <i>Science Advances</i> , 2020, 6, .	10.3	123

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19	Electrophilic Nrf2 activators and itaconate inhibit inflammation at low dose and promote IL-1 β production and inflammatory apoptosis at high dose. <i>Redox Biology</i> , 2020, 36, 101647.	9.0	37
20	Cross talk between intracellular pathogens and cell death. <i>Immunological Reviews</i> , 2020, 297, 174-193.	6.0	44
21	Human GBP1 binds LPS to initiate assembly of a caspase-4 activating platform on cytosolic bacteria. <i>Nature Communications</i> , 2020, 11, 3276.	12.8	178
22	Caspase-1 cleaves Bid to release mitochondrial SMAC and drive secondary necrosis in the absence of GSDMD. <i>Life Science Alliance</i> , 2020, 3, e202000735.	2.8	64
23	Global Ion Suppression Limits the Potential of Mass Spectrometry Based Phosphoproteomics. <i>Journal of Proteome Research</i> , 2019, 18, 493-507.	3.7	12
24	Divide to conquer: NLRP3 is activated on dispersed trans-Golgi network. <i>Cell Research</i> , 2019, 29, 181-182.	12.0	5
25	NLRP6 Deficiency in CD4 T Cells Decreases T Cell Survival Associated with Increased Cell Death. <i>Journal of Immunology</i> , 2019, 203, 544-556.	0.8	11
26	An integrative protocol for the structure determination of the mouse ASC-PYD filament. <i>Methods in Enzymology</i> , 2019, 625, 205-222.	1.0	0
27	Pannexin-1 channels bridge apoptosis to NLRP3 inflammasome activation. <i>Molecular and Cellular Oncology</i> , 2019, 6, 1610324.	0.7	4
28	Extrinsic and intrinsic apoptosis activate pannexin β 1 to drive NLRP3 inflammasome assembly. <i>EMBO Journal</i> , 2019, 38, .	7.8	264
29	Recognition of Intracellular Bacteria by Inflammasomes. <i>Microbiology Spectrum</i> , 2019, 7, .	3.0	29
30	A Surface-Induced Asymmetric Program Promotes Tissue Colonization by <i>Pseudomonas aeruginosa</i> . <i>Cell Host and Microbe</i> , 2019, 25, 140-152.e6.	11.0	127
31	LPS targets host guanylate-binding proteins to the bacterial outer membrane for non-canonical inflammasome activation. <i>EMBO Journal</i> , 2018, 37, .	7.8	184
32	The Gasdermin β pore acts as a conduit for IL-1 β secretion in mice. <i>European Journal of Immunology</i> , 2018, 48, 584-592.	2.9	273
33	Mechanisms and Consequences of Inflammasome Activation. <i>Journal of Molecular Biology</i> , 2018, 430, 131-132.	4.2	10
34	Detecting Release of Bacterial dsDNA into the Host Cytosol Using Fluorescence Microscopy. <i>Methods in Molecular Biology</i> , 2018, 1714, 199-213.	0.9	2
35	Function and mechanism of the pyrin inflammasome. <i>European Journal of Immunology</i> , 2018, 48, 230-238.	2.9	143
36	BAX/BAK-Induced Apoptosis Results in Caspase-8-Dependent IL-1 β Maturation in Macrophages. <i>Cell Reports</i> , 2018, 25, 2354-2368.e5.	6.4	74

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37	ESCRT-dependent membrane repair negatively regulates pyroptosis downstream of GSDMD activation. <i>Science</i> , 2018, 362, 956-960.	12.6	466
38	Guanylate-binding protein 5 licenses caspase-11 for Gasdermin-D mediated host resistance to <i>Brucella abortus</i> infection. <i>PLoS Pathogens</i> , 2018, 14, e1007519.	4.7	67
39	Mobilizable Plasmids for Tunable Gene Expression in <i>Francisella novicida</i> . <i>Frontiers in Cellular and Infection Microbiology</i> , 2018, 8, 284.	3.9	4
40	Sensing of invading pathogens by GBPs: At the crossroads between cell-autonomous and innate immunity. <i>Journal of Leukocyte Biology</i> , 2018, 104, 729-735.	3.3	62
41	Noncanonical inflammasome signaling elicits gasdermin D-dependent neutrophil extracellular traps. <i>Science Immunology</i> , 2018, 3, .	11.9	425
42	Assay for high-throughput screening of inhibitors of the ASC-PYD inflammasome core filament. <i>Cell Stress</i> , 2018, 2, 82-90.	3.2	4
43	<i>Francisella</i> requires dynamic type VI secretion system and ClpB to deliver effectors for phagosomal escape. <i>Nature Communications</i> , 2017, 8, 15853.	12.8	75
44	Evolutionary Convergence and Divergence in NLR Function and Structure. <i>Trends in Immunology</i> , 2017, 38, 744-757.	6.8	123
45	The Inflammasome Drives GSDMD-Independent Secondary Pyroptosis and IL-1 Release in the Absence of Caspase-1 Protease Activity. <i>Cell Reports</i> , 2017, 21, 3846-3859.	6.4	202
46	IFN- β extends the immune functions of Guanylate Binding Proteins to inflammasome-independent antibacterial activities during <i>Francisella novicida</i> infection. <i>PLoS Pathogens</i> , 2017, 13, e1006630.	4.7	41
47	Genome-wide Expression Profiling (with Focus on the Galectin Network) in Tumor, Transition Zone and Normal Tissue of Head and Neck Cancer: Marked Differences Between Individual Patients and the Site of Specimen Origin. <i>Anticancer Research</i> , 2017, 37, 2275-2288.	1.1	14
48	The gasdermin-D pore: Executor of pyroptotic cell death. <i>Oncotarget</i> , 2016, 7, 57481-57482.	1.8	15
49	Inflammasomes in Host Defense and Autoimmunity. <i>Chimia</i> , 2016, 70, 853.	0.6	6
50	<scp>GSDMD</scp> membrane pore formation constitutes the mechanism of pyroptotic cell death. <i>EMBO Journal</i> , 2016, 35, 1766-1778.	7.8	842
51	Aneuploidy Detection and mtDNA Quantification in Bovine Embryos with Different Cleavage Onset Using a Next-Generation Sequencing-Based Protocol. <i>Cytogenetic and Genome Research</i> , 2016, 150, 60-67.	1.1	9
52	K + Efflux-Independent NLRP3 Inflammasome Activation by Small Molecules Targeting Mitochondria. <i>Immunity</i> , 2016, 45, 761-773.	14.3	364
53	AIM2 inflammasome is activated by pharmacological disruption of nuclear envelope integrity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E4671-80.	7.1	106
54	Interferon-inducible GTPases in cell autonomous and innate immunity. <i>Cellular Microbiology</i> , 2016, 18, 168-180.	2.1	99

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55	ASC filament formation serves as a signal amplification mechanism for inflammasomes. <i>Nature Communications</i> , 2016, 7, 11929.	12.8	299
56	Inflammasomes: mechanism of assembly, regulation and signalling. <i>Nature Reviews Immunology</i> , 2016, 16, 407-420.	22.7	2,353
57	Inflammasomes: Intracellular detection of extracellular bacteria. <i>Cell Research</i> , 2016, 26, 859-860.	12.0	15
58	Sequence-specific solid-state NMR assignments of the mouse ASC PYRIN domain in its filament form. <i>Biomolecular NMR Assignments</i> , 2016, 10, 107-115.	0.8	12
59	Characteristics of Quinolone Resistance in <i>Escherichia coli</i> Isolates from Humans, Animals, and the Environment in the Czech Republic. <i>Frontiers in Microbiology</i> , 2016, 7, 2147.	3.5	53
60	Intracellular pathogens under attack. <i>ELife</i> , 2016, 5, .	6.0	0
61	Quantification of Cytosolic vs. Vacuolar <i>Salmonella</i> in Primary Macrophages by Differential Permeabilization. <i>Journal of Visualized Experiments</i> , 2015, , e52960.	0.3	14
62	Guanylate-binding proteins promote activation of the AIM2 inflammasome during infection with <i>Francisella novicida</i> . <i>Nature Immunology</i> , 2015, 16, 476-484.	14.5	291
63	Inflammasome assembly: The wheels are turning. <i>Cell Research</i> , 2015, 25, 1277-1278.	12.0	8
64	Caspase-11 activates a canonical NLRP3 inflammasome by promoting K ⁺ efflux. <i>European Journal of Immunology</i> , 2015, 45, 2927-2936.	2.9	395
65	Structure and assembly of the mouse ASC inflammasome by combined NMR spectroscopy and cryo-electron microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 13237-13242.	7.1	133
66	Caspase target drives pyroptosis. <i>Nature</i> , 2015, 526, 642-643.	27.8	137
67	Interferon-Induced Guanylate-Binding Proteins Promote Cytosolic Lipopolysaccharide Detection by Caspase-11. <i>DNA and Cell Biology</i> , 2015, 34, 1-5.	1.9	25
68	Caspase-11 activation requires lysis of pathogen-containing vacuoles by IFN-induced GTPases. <i>Nature</i> , 2014, 509, 366-370.	27.8	416
69	Getting Rid of the Bad Apple: Inflammasome-Induced Extrusion of <i>Salmonella</i> -Infected Enterocytes. <i>Cell Host and Microbe</i> , 2014, 16, 153-155.	11.0	8
70	Toll-like Receptor and Inflammasome Signals Converge to Amplify the Innate Bactericidal Capacity of T Helper 1 Cells. <i>Immunity</i> , 2014, 40, 213-224.	14.3	90
71	Newly described pattern recognition receptors team up against intracellular pathogens. <i>Nature Reviews Immunology</i> , 2013, 13, 551-565.	22.7	395
72	Measuring Inflammasome Activation in Response to Bacterial Infection. <i>Methods in Molecular Biology</i> , 2013, 1040, 65-84.	0.9	20

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73	A Coupled Protein and Probe Engineering Approach for Selective Inhibition and Activity-Based Probe Labeling of the Caspases. <i>Journal of the American Chemical Society</i> , 2013, 135, 9130-9138.	13.7	31
74	Noncanonical Inflammasomes: Caspase-11 Activation and Effector Mechanisms. <i>PLoS Pathogens</i> , 2013, 9, e1003144.	4.7	67
75	Caspase-1 activity affects AIM2 speck formation/stability through a negative feedback loop. <i>Frontiers in Cellular and Infection Microbiology</i> , 2013, 3, 14.	3.9	13
76	Innate immune response to <i>Salmonella typhimurium</i> , a model enteric pathogen. <i>Gut Microbes</i> , 2012, 3, 62-70.	9.8	194
77	Caspase-11 increases susceptibility to <i>Salmonella</i> infection in the absence of caspase-1. <i>Nature</i> , 2012, 490, 288-291.	27.8	466
78	Caspase-1 activity is required to bypass macrophage apoptosis upon <i>Salmonella</i> infection. <i>Nature Chemical Biology</i> , 2012, 8, 745-747.	8.0	53
79	Innate Immune Recognition of <i>Francisella Tularensis</i> : Activation of Type-I Interferons and the Inflammasome. <i>Frontiers in Microbiology</i> , 2011, 2, 16.	3.5	34
80	Elevated AIM2-mediated pyroptosis triggered by hypercytotoxic <i>Francisella</i> mutant strains is attributed to increased intracellular bacteriolysis. <i>Cellular Microbiology</i> , 2011, 13, 1586-1600.	2.1	95
81	Molecular mechanisms of inflammasome activation during microbial infections. <i>Immunological Reviews</i> , 2011, 243, 174-190.	6.0	222
82	Redundant roles for inflammasome receptors NLRP3 and NLRC4 in host defense against <i>Salmonella</i> . <i>Journal of Experimental Medicine</i> , 2010, 207, 1745-1755.	8.5	491
83	Absent in melanoma 2 is required for innate immune recognition of <i>Francisella tularensis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 9771-9776.	7.1	454
84	Differential Requirement for Caspase-1 Autoproteolysis in Pathogen-Induced Cell Death and Cytokine Processing. <i>Cell Host and Microbe</i> , 2010, 8, 471-483.	11.0	514
85	The type III secretion system tip complex and translocon. <i>Molecular Microbiology</i> , 2008, 68, 1085-1095.	2.5	207
86	YscU recognizes translocators as export substrates of the <i>Yersinia</i> injectisome. <i>EMBO Journal</i> , 2007, 26, 3015-3024.	7.8	97
87	Function and molecular architecture of the <i>Yersinia</i> injectisome tip complex. <i>Molecular Microbiology</i> , 2007, 65, 1311-1320.	2.5	129
88	Protective Anti- ϵ V Antibodies Inhibit <i>Pseudomonas</i> and <i>Yersinia</i> Translocon Assembly within Host Membranes. <i>Journal of Infectious Diseases</i> , 2005, 192, 218-225.	4.0	111
89	The V-Antigen of <i>Yersinia</i> Forms a Distinct Structure at the Tip of Injectisome Needles. <i>Science</i> , 2005, 310, 674-676.	12.6	319
90	The Needle Length of Bacterial Injectisomes Is Determined by a Molecular Ruler. <i>Science</i> , 2003, 302, 1757-1760.	12.6	272

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91	Recognition of Intracellular Bacteria by Inflammasomes. , 0, , 287-297.		20
92	Viral protein activates the NLRP1 inflammasome. Nature Immunology, 0, , .	14.5	0